

## ABSTRACT

Apparatus is provided for the treatment of a medical condition, such as mucositis in patients who are undergoing cancer treatment. The apparatus has several embodiments. In each embodiment, an array of optoelectronic devices, such as light-emitting diodes (LEDs), is used to provide a uniform emission of monochromatic light while producing a minimal amount of heat. The LEDs may be cooled in several ways. The treatments are typically of a very short duration. In several embodiments, selected portions of the patient are treated using a hand-held or stationary lamp. In other embodiments, the entire gastrointestinal tract may be treated simultaneously.